



Memorandum

To: Honorable Mayor Maso and Members of the Frisco City Council

cc: George Purefoy, City Manager
Cissy Sylo, P.E., Director of Engineering Services
Elizabeth Metting, P.E., Asst. Director/City Engine

From: Jason Brodigan, P.E., Senior Civil Engineer

Date: October 8, 2008

Subject: Consider and act upon approval of a Resolution authorizing the City Manager to execute Amendment Number Four to the Professional Services Agreement by and between the City of Frisco and Wier and Associates, Inc. to perform additional services for the design of Eldorado Parkway Paving, Drainage and Bridge Improvements, Phase 1 and Phase 2 (Dallas North Tollway to Preston Road)

Action Requested: City Council consideration and approval of a Resolution authorizing the City Manager to execute Amendment Number Four to the Professional Services Agreement by and between the City of Frisco and Wier and Associates, Inc. of Frisco, Texas, in the amount of \$40,000.00, to perform additional services for the design of Eldorado Parkway Paving, Drainage and Bridge Improvements, Phase 1 and Phase 2 (Dallas North Tollway to Preston Road).

Background Information: The City Council approved Resolution Number 06-06-141R, authorizing the City Manager to execute a Professional Services Agreement for the design and bid package preparation of Eldorado Parkway Paving, Drainage and Bridge Improvements, Phase 1 and Phase 2 (Dallas North Tollway to Preston Road) at their June 6, 2006 meeting. The original contract included the design of two (2) westbound lanes, widening Eldorado Parkway to four (4) lanes, including paving, grading, drainage, illumination, traffic signals, water and sanitary sewer adjustments, and an additional bridge over the BNSF Railway. The cost of the Agreement was \$356,300.00.

The City Council approved Change Order Number 1 at their September 5, 2006 meeting. Change Order Number 1 modified the Agreement to include the geotechnical investigation necessary to comply with the City Subgrade Ordinance

Agenda Memorandum

Amendment Number Four – Wier and Associates

**Engineering Design Services for Eldorado Parkway Paving, Drainage and Bridge Improvements
City Council Meeting of October 8, 2008**

Page 2 of 3

which was implemented after execution of the Agreement. The cost of Change Order #1 was \$35,000.00, increasing the total cost of the Agreement to \$391,300.00.

The City Council approved Resolution Number 07-04-69R, authorizing the City Manager to execute Amendment Number One to the Agreement, at their April 3, 2007 meeting. Amendment Number One modified the Agreement to include two (2) additional components to the Project scope. One item included was the design of Rogers Road improvements from approximately 500' south of Eldorado Parkway extending to approximately 650' north of Eldorado Parkway. The Amendment also included the modification of plans to construct six (6) lanes of Eldorado Parkway from Preston Road to the Panther Creek Bridge. The cost of Amendment Number One was \$32,700.00, increasing the total cost of the Agreement to \$424,000.00.

The City Council approved Resolution Number 07-04-153R, authorizing the City Manager to execute Amendment Number Two to the Agreement, at their July 3, 2007 meeting. Amendment Number Two incorporated plans for replacement of the eastbound lanes of Eldorado Parkway along the Warren Sports Complex. The existing pavement in this area is deteriorated beyond repair, exhibiting signs of pavement and/or subgrade failure such as spalling, cracking and potholes. The failure of this pavement approximately ten (10) years after construction can be attributed to an inadequate design that did not take into consideration the expansive soils of the Eagle Ford formation. The lanes will be reconstructed in accordance with the Subgrade Ordinance. The cost of Amendment Number Two was \$16,000.00, increasing the cost of the Agreement to \$440,000.00.

The City Council approved Resolution Number 08-03-64R, authorizing the City Manager to execute Amendment Number Three to the Agreement, at their August 5, 2008 meeting. Amendment Number Three added the design of the inside lanes for both eastbound and westbound Eldorado Parkway from the Dallas North Tollway to Preston Road to the existing construction documents which were substantially complete. As a result, Wier and Associates, Inc. provided construction plans for the widening of Eldorado Parkway to a six (6) lane roadway. The cost of Amendment Number Three was \$47,000.00, increasing the cost of the Agreement to \$487,000.00.

Amendment Number Four proposes to correct a drainage problem discovered in the existing drainage system constructed with the eastbound lanes. During review of the design plans for the westbound lanes, it was discovered that an error in the drainage calculations was made during the design of the eastbound lanes. The drainage system for the eastbound lanes was supposed to be designed to carry all of the runoff for both the eastbound and westbound lanes. This drainage system was constructed and completed in 2003; however, the system was not sized correctly. The runoff from the westbound lanes cannot be adequately carried through the existing system. An additional, parallel system must be designed to convey the

Agenda Memorandum

Amendment Number Four – Wier and Associates

**Engineering Design Services for Eldorado Parkway Paving, Drainage and Bridge Improvements
City Council Meeting of October 8, 2008**

Page 3 of 3

runoff without flooding the roadway or surrounding property. Amendment Number Four authorizes Wier and Associates, Inc. to design the additional drainage system required to properly convey storm runoff. The cost of Amendment Number Four totals \$40,000.00; execution of Amendment Number Four will increase the total contract amount to \$527,000.00.

Alternatives: The City Council could consider the following alternatives:

- Approval of a Resolution authorizing the City Manager to execute Amendment Number Four to the Professional Services Agreement by and between the City of Frisco and Wier and Associates, Inc.;
- Input towards the discussion as desired;
- Deny approval of the Resolution and send back to staff with direction.

Financial Considerations: The cost of Amendment Number Four totals \$40,000.00; execution of Amendment Number Four increases the total cost of the Agreement to \$527,000.00. The cost of Amendment Number Four is within the current Project budget estimate; staff recommends that funding for the cost of the Amendment derive from the 2007 General Obligation Bonds for the respective Project.

Legal Review: The Resolution and Amendment Number Four has been reviewed and approved by the City Attorney's Office as to form and legality.

Supporting Documents: Supporting documents include the following items:

- Copy of Project Location Map;
- Copy of Resolution;
- Copy of Amendment Number One to the Professional Services Agreement by and between the City of Frisco and Wier and Associates, Inc.

Staff Recommendation: Staff recommends placement of this item on the October 8, 2008 City Council meeting agenda to consider and approve a Resolution authorizing the City Manager to execute Amendment Number Four to the Professional Services Agreement by and between the City of Frisco and Wier and Associates, Inc. of Frisco, Texas, in the amount of \$40,000.00, to perform additional services for the design of Eldorado Parkway Paving, Drainage and Bridge Improvements, Phase 1 and Phase 2 (Dallas North Tollway to Preston Road). Staff will be present at the meeting to address the City Council's questions relating to this agenda item.